

[illegible]

PTO/SB/05 (11-00)
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Attorney Docket No.	028420-0013CON
First Inventor	P. C. Kocher
Title	Cryptographic Computation Using Masking to Prevent ..
Express Mail Label No.	EL 728 498 770 US

(Only for new nonprovisional applications under 37 CFR 1.53(b))

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO:

Assistant Commissioner for Patents
Box Patent Application
Washington, D.C. 20231

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original, and a duplicate for fee processing)

2. ☐ Applicant claims small entity status.
See 37 CFR 1.27.

3. ☒ Specification [Total Pages (preferred arrangement set forth below)

 - Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table,
or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure

4. ☒ Drawing(s) (35 U.S.C. 113) [Total

5. Oath or Declaration [Total Pages
 - a. ☐ Newly executed (original or copy)
 - b. ☒ Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 18 completed)
 - i. ☐ DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s)
named in the prior application, see 37 CFR
1.63(d)(2) and 1.33(b).

6. ☐ Application Data Sheet. See 37 CFR 1.76

7. ☐ CD-ROM or CD-R in duplicate, large table or
Computer Program (Appendix)

8. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)

 - a. ☐ Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. ☐ CD-ROM or CD-R (2 copies); or
 - ii. ☐ paper
 - c. ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. ☐ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement ☒ Power of Attorney
(when there is an assignee) (copy)
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
13. ☒ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
16. ☐ Request and Certification under 35 U.S.C. 122
(b)(2)(B)(i). Applicant must attach form PTO/SB/35
or its equivalent.
17. ☒ Other: Certificate of Mailing

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☒ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: **09/324,798**

Prior application information.

Examiner **J. Darrow**

Group / Art Unit 2132

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

☐ Customer Number or Bar Code Label

or ☒ Correspondence address below

(Insert Customer No. or Attach bar code label here)

Name	Joseph Yang, Ph.D.				
	Skadden, Arps, Slate, Meagher & Flom LLP				
Address	525 University Avenue				
City	Palo Alto	State	California	Zip Code	94301
Country	U.S.A.	Telephone	(650) 470-4500	Fax	(650) 470-4570

Name (Print/Type) **Joseph Yang, Ph.D.**

Registration No. (Attorney/Agent)	41.387
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Signature

<i>Date</i>	August 15, 2001
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Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

UTILITY PATENT APPLICATION TRANSMITTAL Page 2	Attorney Docket No.:	028420-0013CON
	First Inventor:	P. C. Kocher et al.
	Title:	Cryptographic Computation Using Masking to Prevent Differential Power Analysis and Other Attacks
	Express Mail Label No.:	EL 728 498 770 US

This is a Continuation Application under 37 C.F.R. § 1.53(b) of pending Application Serial No. 09/324,798 filed on June 3, 1999 (which, in turn, claims the benefit of Serial No. 60/087,826 filed June 3, 1998), for DES and Other Cryptographic Processes with Leak Minimization for Smartcards and Other Cryptosystems, by the following named inventors:

- a. Full Name Paul C. Kocher
 Citizenship United States of America
 Residence San Francisco, California
 Address 143 Fillmore Street, San Francisco, California 94117
- b. Full Name Joshua M. Jaffe
 Citizenship United States of America
 Residence San Francisco, California
 Address 200 Upper Terrace, Apt. 4, San Francisco, California 94117
- c. Full Name Benjamin C. Jun
 Citizenship United States of America
 Residence Palo Alto, California
 Address 1081-B Tanlan Drive, Palo Alto, California 94303

1. Enclosed is a copy of prior Application Serial No. 09/324,798 filed on June 3, 1999, including copies of the specification, claims, abstract and the executed oath or declaration as originally filed. Enclosed is a copy of the formal drawings submitted on March 28, 2001 in prior Application Serial No. 09/324,798 filed on June 3, 1999.

2. The filing fee is calculated below:

Basic Application Fee				\$	710.00
Total Claims	10	Minus 20 = 0	x \$18 =	\$	0.00
Independent Claims	3	Minus 3 = 0	x \$80 =	\$	0.00
Total Application Fee Due				\$	710.00

3. The Commissioner is hereby authorized to charge any fees under 37 C.F.R. §§ 1.16 and 1.17 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 19-2385. A duplicate of this paper is enclosed.

UTILITY PATENT APPLICATION TRANSMITTAL Page 3	Attorney Docket No.:	028420-0013CON
	First Inventor:	P. C. Kocher et al.
	Title:	Cryptographic Computation Using Masking to Prevent Differential Power Analysis and Other Attacks
	Express Mail Label No.:	EL 728 498 770 US

4. A check in the amount of \$710.00 is enclosed.
5. Cancel in this application original claims 1-40 of the prior application before calculating the filing fee.
6. The prior application is assigned of record to Cryptography Research, Inc., 870 Market Street, Suite 1088, San Francisco, California 94102 (assignment recorded June 3, 1999 at Reel 010010, Frame 0626).
7. A preliminary amendment is enclosed.
8. The power of attorney in the prior application is to:

Ronald S. Laurie, Reg. No. 25,431	Frederick Hadidi, Reg. No. 37,342
Joseph Yang, Ph.D., Reg. No. 41,387	Thomas Raleigh Lane, Reg. No. 42,781

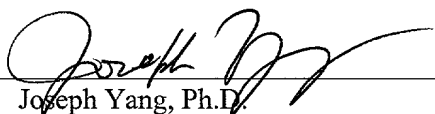
- a. A copy of the power in the prior application is enclosed.
- b. Recognize as Associate Attorney:

Frederick D. Kim, Ph.D., Reg. No. 38,513	Constance F. Ramos, Ph.D., Reg. No. 47,883
Stacey J. Farmer, Ph.D., Reg. No. 42,526	Gene I. Su, Reg. No. 45,140
Robert B. Beyers, Ph.D., Reg. No. 46,552	Daniel J. Lin, Reg. No. 47,750

- c. Address all future communications to:

Joseph Yang, Ph.D.
 Skadden, Arps, Slate, Meagher & Flom LLP
 525 University Avenue
 Palo Alto, California 94301

Date: August 15, 2001

By: 
 Joseph Yang, Ph.D.
 Registration No. 41,387

Address of signator:

Skadden, Arps, Slate, Meagher & Flom LLP
 525 University Avenue
 Palo Alto, California 94301
 Telephone: (650) 470-4500
 Facsimile: (650) 470-4570

Inventor(s)
 Assignee of complete interest
☒ Attorney or agent of record
 filed under 37 C.F.R. § 1.34(a)

<h1 style="margin: 0;">FEE TRANSMITTAL</h1> <h2 style="margin: 0;">for FY 2000</h2> <p style="font-size: small; margin: 5px 0;">Patent fees are subject to annual revision.</p>		Complete if Known	
		Application Number	Unknown
		Filing Date	August 15, 2001
		First Named Inventor	P. C. Kocher
		Examiner Name	J. Darrow
		Group / Art Unit	2132
TOTAL AMOUNT OF PAYMENT		\$710.00	
		Attorney Docket No.	028420-0013CON

METHOD OF PAYMENT (check one)	FEE CALCULATION (continued)																																																																																																																																																																																																																																																																																																																		
<p>1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:</p> <p>Deposit Account Number: 19-2385</p> <p>Deposit Account Name: Skadden, Arps et al.</p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17</p> <p><input type="checkbox"/> Applicant claims small entity status. See 37 CFR § 1.27</p> <p>2. <input checked="" type="checkbox"/> Payment Enclosed:</p> <p><input checked="" type="checkbox"/> Check <input type="checkbox"/> Credit card <input type="checkbox"/> Money Order <input type="checkbox"/> Other</p>	<p>3. ADDITIONAL FEES</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non - English specification</td><td></td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for <i>ex parte</i> reexamination</td><td></td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>113</td><td>1,840*</td><td>113</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>116</td><td>390</td><td>216</td><td>195</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>117</td><td>890</td><td>217</td><td>445</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>118</td><td>1,390</td><td>218</td><td>695</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>128</td><td>1,890</td><td>228</td><td>945</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>119</td><td>310</td><td>219</td><td>155</td><td>Notice of Appeal</td><td></td></tr> <tr><td>120</td><td>310</td><td>220</td><td>155</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>121</td><td>270</td><td>221</td><td>135</td><td>Request for oral hearing</td><td></td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive - unavoidable</td><td></td></tr> <tr><td>141</td><td>1,240</td><td>241</td><td>620</td><td>Petition to revive - unintentional</td><td></td></tr> <tr><td>142</td><td>1,240</td><td>242</td><td>620</td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>143</td><td>440</td><td>243</td><td>220</td><td>Design issue fee</td><td></td></tr> <tr><td>144</td><td>600</td><td>244</td><td>300</td><td>Plant issue fee</td><td></td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Petitions related to provisional applications</td><td></td></tr> <tr><td>126</td><td>240</td><td>126</td><td>240</td><td>Submission of Information Disclosure Statement</td><td></td></tr> <tr><td>581</td><td>40</td><td>581</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>146</td><td>710</td><td>246</td><td>355</td><td>Filing a submission after final rejection (37 CFR § 1.129(a))</td><td></td></tr> <tr><td>149</td><td>710</td><td>249</td><td>355</td><td>For each additional invention to be examined (37 CFR § 1.129(b))</td><td></td></tr> <tr><td>179</td><td>710</td><td>279</td><td>355</td><td>Request for Continued Examination (RCE)</td><td></td></tr> <tr><td>169</td><td>900</td><td>169</td><td>900</td><td>Request for expedited examination of a design application</td><td></td></tr> <tr><td colspan="5">Other fee (specify) _____</td><td></td></tr> <tr> <td colspan="2" style="text-align: right;">SUBTOTAL (1)</td> <td colspan="2" style="text-align: right;">\$710.00</td> <td colspan="2"></td> </tr> </tbody> </table> <p>1. 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EXTRA CLAIM FEES</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Extra Claims</th> <th colspan="2">Fee from below</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Total Claims</th> <th>Fee</th> <th>Fee</th> <th>Fee</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>20** =</td> <td>0</td> <td></td> <td>0.00</td> </tr> <tr> <td>3</td> <td>3** =</td> <td>0</td> <td></td> <td>0.00</td> </tr> <tr> <td colspan="5">Multiple Dependent _____ = _____</td> </tr> </tbody> </table> <p>**or number previously paid, if greater; For Reissues, see below</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>103</td><td>18</td><td>203</td><td>9</td><td>Claims in excess of 20</td><td></td></tr> <tr><td>102</td><td>80</td><td>202</td><td>40</td><td>Independent claims in excess of 3</td><td></td></tr> <tr><td>104</td><td>270</td><td>204</td><td>135</td><td>Multiple dependent claim, if not paid</td><td></td></tr> <tr><td>109</td><td>80</td><td>209</td><td>40</td><td>** Reissue independent claims over original patent</td><td></td></tr> <tr><td>110</td><td>18</td><td>210</td><td>9</td><td>** Reissue claims in excess of 20 and over original patent</td><td></td></tr> <tr> <td colspan="2" style="text-align: right;">SUBTOTAL (2)</td> <td colspan="2" style="text-align: right;">\$0.00</td> <td colspan="2"></td> </tr> </tbody> </table> <p style="text-align: right;">Reduced by Basic Filing Fee Paid SUBTOTAL (3) _____</p>	Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	105	130	205	65	Surcharge - late filing fee or oath		127	50	227	25	Surcharge - late provisional filing fee or cover sheet		139	130	139	130	Non - English specification		147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination		112	920*	112	920*	Requesting publication of SIR prior to Examiner action		113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action		115	110	215	55	Extension for reply within first month		116	390	216	195	Extension for reply within second month		117	890	217	445	Extension for reply within third month		118	1,390	218	695	Extension for reply within fourth month		128	1,890	228	945	Extension for reply within fifth month		119	310	219	155	Notice of Appeal		120	310	220	155	Filing a brief in support of an appeal		121	270	221	135	Request for oral hearing		138	1,510	138	1,510	Petition to institute a public use proceeding		140	110	240	55	Petition to revive - unavoidable		141	1,240	241	620	Petition to revive - unintentional		142	1,240	242	620	Utility issue fee (or reissue)		143	440	243	220	Design issue fee		144	600	244	300	Plant issue fee		122	130	122	130	Petitions to the Commissioner		123	50	123	50	Petitions related to provisional applications		126	240	126	240	Submission of Information Disclosure Statement		581	40	581	40	Recording each patent assignment per property (times number of properties)		146	710	246	355	Filing a submission after final rejection (37 CFR § 1.129(a))		149	710	249	355	For each additional invention to be examined (37 CFR § 1.129(b))		179	710	279	355	Request for Continued Examination (RCE)		169	900	169	900	Request for expedited examination of a design application		Other fee (specify) _____						SUBTOTAL (1)		\$710.00				Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	101	710	201	355	Utility filing fee	710.00	106	320	206	160	Design filing fee		107	490	207	245	Plant filing fee		108	710	208	355	Reissue filing fee		114	150	214	75	Provisional filing fee		SUBTOTAL (1)		\$710.00				Extra Claims		Fee from below		Fee Paid	Total Claims	Fee	Fee	Fee	10	20** =	0		0.00	3	3** =	0		0.00	Multiple Dependent _____ = _____					Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	103	18	203	9	Claims in excess of 20		102	80	202	40	Independent claims in excess of 3		104	270	204	135	Multiple dependent claim, if not paid		109	80	209	40	** Reissue independent claims over original patent		110	18	210	9	** Reissue claims in excess of 20 and over original patent		SUBTOTAL (2)		\$0.00			
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149	710	249	355	For each additional invention to be examined (37 CFR § 1.129(b))																																																																																																																																																																																																																																																																																																															
179	710	279	355	Request for Continued Examination (RCE)																																																																																																																																																																																																																																																																																																															
169	900	169	900	Request for expedited examination of a design application																																																																																																																																																																																																																																																																																																															
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106	320	206	160	Design filing fee																																																																																																																																																																																																																																																																																																															
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104	270	204	135	Multiple dependent claim, if not paid																																																																																																																																																																																																																																																																																																															
109	80	209	40	** Reissue independent claims over original patent																																																																																																																																																																																																																																																																																																															
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SUBMITTED BY		Complete (if applicable)	
Name (Print/Type)	Joseph Yang, Ph.D.	Registration No. (Attorney/Agent)	41,387
Signature		Telephone	(650) 470-4500
		Date	August 15, 2001

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Serial No.

Unknown

Filing Date

August 15, 2001

Examiner

J. Darrow

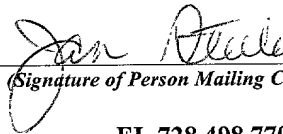
Group Art Unit

2132

Invention:

Cryptographic Computation Using Masking to Prevent Differential Power Analysis and Other AttacksI hereby certify that this **Utility Patent Application Transmittal and all enclosures***(Identify type of correspondence)*

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